

# Claims

[c1] What is claimed is:

1.A method for processing audiovisual (AV) signals comprising:

- (a) receiving a first AV signal by a receiving module;
- (b) transmitting the first AV signal to a coder and decoder (CODEC) by a control unit in order to convert the first AV signal into a second AV signal, wherein the CODEC is connected to the receiving module and the control unit, and the control unit controls the CODEC;
- (c) storing the second AV signal in a storing device connected to the CODEC and the control unit, wherein the control unit can control the storing device, and the storing device has stored a third AV signal;
- (d) while proceeding step (a) to (c), transmitting the third AV signal to the CODEC by the control unit, and decoding the third AV signal into a fourth AV signal by the CODEC;
- (e) transmitting the fourth AV signal to an editing module by the control unit; and
- (f) editing the fourth AV signal to form a fifth AV signal by the editing module.

- [c2] 2.The method of claim 1, wherein after the fifth AV signal is encoded into a sixth AV signal by the CODEC, the control unit stores the sixth AV signal in the storing device.
- [c3] 3.The method of claim 1, wherein the first AV signal is displayed on a first display device.
- [c4] 4.The method of claim 3, wherein the first display device is connected to the receiving module.
- [c5] 5.The method of claim 1, wherein the fourth AV signal and the fifth AV signal are displayed on a second display device.
- [c6] 6.The method of claim 5, wherein the second display device is connected to the CODEC.
- [c7] 7.The method of claim 1, wherein the receiving module has an analog-to-digital converter (ADC) for receiving an analog AV signal and converting the analog AV signal into a corresponding digital AV signal.
- [c8] 8.The method of claim 1, wherein the control unit has a basic input/output system (BIOS).
- [c9] 9.A method for processing AV signals comprising:
  - (a) receiving a first AV signal by a receiving module;
  - (b) transmitting the first AV signal to a CODEC by a con-

trol unit in order to convert the first AV signal into a second AV signal, wherein the CODEC is connected to the receiving module and the control unit, and the control unit controls the CODEC;

(c) storing the second AV signal in a storing device connected to the CODEC and the control unit, wherein the control unit can control the storing device;

(d) receiving a third AV signal by the receiving module;

(e) transmitting the third AV signal to the CODEC by the control unit in order to convert the third AV signal into a fourth AV signal;

(f) storing the fourth AV signal in the storing device;

(g) while performing steps (d) to (f), transmitting the second AV signal to the CODEC by the control unit, and decoding the second AV signal into a fifth AV signal by the CODEC;

(h) transmitting the fifth AV signal to an editing module by the control unit, wherein the control unit controls the editing module, and the editing module is connected to the control unit and the CODEC; and

(i) editing the fifth AV signal to form a sixth AV signal by the editing module.

[c10] 10. The method of claim 9, wherein the first AV signal is displayed on a first display device.

- [c11] 11.The method of claim 10, wherein the first display device is connected to the receiving module.
- [c12] 12.The method of claim 9, wherein the fifth AV signal and the sixth AV signal are displayed on a second display device.
- [c13] 13.The method of claim 12, wherein the second display device is connected to the CODEC.
- [c14] 14.The method of claim 9, wherein the receiving module has an ADC for receiving an analog AV signal and converting the analog AV signal into a corresponding digital AV signal.
- [c15] 15.The method of claim 9, wherein the control unit has a BIOS.
- [c16] 16.A method for processing AV signals by a digital recording device comprising:
- (a) receiving a first AV signal by a receiving module;
  - (b) transmitting the first AV signal to a CODEC by a control unit in order to convert the first AV signal into a second AV signal and display the second AV signal on a first display device, wherein the CODEC is connected to the receiving module and the control unit, and the control unit controls the CODEC;
  - (c) storing the second AV signal in a storing device con-

nected to the CODEC and the control unit, wherein the control unit can control the storing device;

(d) receiving a third AV signal by the receiving module;

(e) transmitting the third AV signal to the CODEC by the control unit in order to convert the third AV signal into a fourth AV signal and display the fourth AV signal on the first display device;

(f) storing the fourth AV signal in the storing device;

(g) while performing steps (d) to (f), transmitting the second AV signal to the CODEC by the control unit, and decoding the second AV signal into a fifth AV signal by the CODEC;

(h) transmitting the fifth AV signal to an editing module by the control unit, wherein the control unit controls the editing module, and the editing module is connected to the control unit and the CODEC;

(i) editing the fifth AV signal to form a sixth AV signal by the editing module, wherein both the fifth AV signal and the sixth AV signal can be displayed on a second display device;

(j) transmitting the sixth AV signal to the CODEC by the control unit in order to convert the sixth AV signal into a seventh AV signal; and

(k) storing the seventh AV signal in the storing device by the control unit.

- [c17] 17. The method of claim 16, wherein the first display device is connected to the CODEC.
- [c18] 18. The method of claim 16, wherein the second display device is connected to the CODEC.
- [c19] 19. The method of claim 16, wherein the digital recording device is a digital camcorder.